

## ABSTRACT

The present invention provides novel immunotoxins and  
5 methods of treating neoplastic diseases. These immunotoxins are  
comprised of a conjugation of an antigen binding region exhibiting  
binding specificity for the CD33 protein and a cell growth modulator.  
The immunotoxins of the present invention specifically and  
selectively kill tumor cells that are characterized by the expression of  
10 CD33 antigen. Thus, the novel immunotoxins would be useful in  
treating human leukemias, both acute and chronic, and other  
myelodysplastic syndromes.

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